



MARICOPA COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
AIR QUALITY DIVISION
1001 NORTH CENTRAL AVENUE, SUITE 200
PHOENIX, ARIZONA 85004

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APPLICATION INSTRUCTIONS FOR THE AUTHORITY TO OPERATE AND/OR CONSTRUCT A GRAPHIC ARTS OPERATION UNDER THE GENERAL PERMIT

Facilities that qualify for an Authority to Operate (ATO) or Construct under the Maricopa County General Permit for Graphic Arts Operations must use this form to apply for an ATO. Using this application, you will obtain an ATO under this General Permit faster and at a lower cost than if applying for an individual source permit. Do not use this form for amending prior applications, for adding additional pieces of equipment at existing facilities, etc.

Complete the application by typing or printing legibly. A one-time application processing fee of **\$225** must accompany your application. Applications submitted, as a result of receiving a Notice of Violation (NOV) must include an additional \$70 late fee. There is an annual inspection fee of **\$225**. The Department will send a separate yearly billing to cover the annual inspection fee. To maintain this permit, the annual inspection fee must be paid by the due date listed on your invoice.

This General Permit covers facilities which are Graphic Arts Operations that:

- Have a combination of printing presses with greater than 500 square inches (3226 cm²) of impression area or any press employing more than two units per printing press. "Units" means the number of printing surfaces. [County Rule 200 § 303.3d]
- Emit less than 25 tons (22,680 kg) per calendar year and less than 4200 pounds (1909 kg) per month of Volatile Organic Compounds (VOC's) from the facility, including but not limited to combined graphic arts, solvent use and boiler operations. [County Rule 240 § 307.2]
- Do not use an Emissions Control System (ECS) to control solvent emissions. Using an ECS involves a case by case engineering review and a General Permit cannot be used at a facility which employs such a system. [County Rule 230 § 305]
- Do not conduct any other operations requiring an air quality permit other than printing operations, fuel burning and having an emergency generator.

If it is found that your facility does not qualify for coverage under this General Permit, the \$225 application processing fee will be forwarded with your application for review as an individual source permit. If you are required to obtain an individual source permit, you will be billed later for the additional applicable permit fees.

In the application, items 1 through 15 and the Technical Section(s) that apply to your facility must be completed. Sketch or attach a sketch to show the location of the printing unit(s) and any fuel burning equipment. If necessary, attach additional sheets to the application to provide all required information. Obtaining this ATO through fraud or misrepresentation may subject you to civil and criminal penalties.

The Maricopa County Air Pollution Control Rules and Regulations are available at the listed address. To obtain a copy, contact the Department for information and costs, or download them from our Internet site <http://www.maricopa.gov/envsvc>. **Small businesses may contact the Small Business Environmental Assistance Program at (602) 506-5150 for assistance in completing the application package.** They may also be contacted by e-mail through the web site <http://www.maricopa.gov/sbeap> and are located at the following address:

Maricopa County Environmental Services Department
Small Business Environmental Assistance Program
1001 N. Central Avenue, Suite 500
Phoenix, Arizona 85004



MARICOPA COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
AIR QUALITY DIVISION
1001 North Central Avenue
Phoenix, Arizona 85004
(602) 506-6094
FAX (602) 506-6985

DATE RECEIVED

LOG NUMBER

**APPLICATION FOR THE AUTHORITY TO OPERATE AND/OR CONSTRUCT
A GRAPHIC ARTS FACILITY UNDER THE GENERAL PERMIT**

(As required by A.R.S. §49-480 and Maricopa County Air Pollution Control Regulations, Rule 200)

READ INSTRUCTIONS FIRST. ALL APPLICANTS MUST COMPLETE ITEMS 1 THROUGH 15. ALSO COMPLETE EACH APPLICABLE SECTION A AND B.

1. BUSINESS NAME:		DO NOT WRITE IN THIS SPACE	
2. ADDRESS OF SITE:			
AZ ZIP:			
3. CONTACT AT SITE		3a. TELEPHONE AT SITE ()	
4. TYPE OF OWNERSHIP:		<input type="checkbox"/> Corporation <input type="checkbox"/> Sole Owner <input type="checkbox"/> Other - Specify:	
		<input type="checkbox"/> Partnership <input type="checkbox"/> Government	
5. NAME AND MAILING ADDRESS OF OWNERSHIP:			
6. TELEPHONE OF OWNERSHIP: ()		6a. CONTACT AT OWNERSHIP	
7. SEND ALL CORRESPONDENCE INCLUDING INVOICE AND PERMIT TO:		COMPANY NAME:	
		ADDRESS:	
CITY:		STATE:	ZIP CODE:
ATTN:			
8. SIC (STANDARD INDUSTRIAL CLASSIFICATION) CODE(S):	9. EXISTING AIR POLLUTION CONTROL PERMIT NUMBER FOR THIS SITE, IF ANY:		
10. PROVIDE A BRIEF DESCRIPTION OF BUSINESS/PROCESS AT SITE:			
11. OPERATING SCHEDULE	HOURS PER DAY	DAYS PER WEEK	WEEKS PER YEAR
12. PROJECTED DATE OF COMPLETION (IF NEW EQUIPMENT)			

13. THE AUTHORIZED CONTACT PERSON REGARDING THIS APPLICATION IS:

NAME TELEPHONE

TITLE COMPANY

14. I CERTIFY THAT I AM FAMILIAR WITH THE OPERATIONS AND EQUIPMENT REPRESENTED ON THIS APPLICATION AND THE STATEMENTS AND INFORMATION PROVIDED HEREIN ARE TRUE, ACCURATE, AND COMPLETE BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY.

TYPE OR PRINT NAME AND TITLE OF RESPONSIBLE OFFICIAL

DATE SIGNATURE OF OWNER OR RESPONSIBLE OFFICIAL OF BUSINESS

15. SITE DIAGRAM: DRAW A SITE LAYOUT OR ATTACH A DRAWING OF EQUIPMENT LOCATIONS AT THE SITE WITH APPROXIMATE DISTANCES TO PROPERTY LINES. SPECIFICALLY SHOW THE LOCATION OF PRESSES, FOUNTAIN SOLUTIONS, INKS, SOLVENTS AND FUEL BURNING EQUIPMENT.



SECTION A. GRAPHIC ARTS FACILITIES

The following questions apply to all graphic arts facilities:

1. Does your facility have a printing operation which employs a combination of printing presses with greater than 500 square inches (3226 cm²) of impression area or have a printing press employing more than two units per press?

YES ☐ NO ☐

If the answer is NO then a permit is not required. If the answer is YES then please proceed to the question number 2.

2. Does your facility employ an Emissions Control Device to reduce Emissions?

YES ☐ NO ☐

If the answer is YES then the General Permit does not apply and an Individual Source Permit Application is required. If the answer is NO then please proceed to question number 3.

3. Will your facility emit over 25 Tons (22,680 kg) of Volatile Organic Compounds (VOCs) per calendar year or over 4200 pounds (1909 kg) per month of VOCs from the facility, including but not limited to combined graphic arts, solvent use and boiler operations?

YES ☐ NO ☐

If the answer is YES then the General Permit does not apply and an Individual Source Permit Application is required. If the answer is NO then please proceed.

Answer questions 4 thru 7 if your facility uses one or more Offset Lithographic printing presses. If your facility does not use Offset Lithographic printing presses, check not applicable (N/A) to questions 4 thru 7.

4. If you have any fountain solutions that are not refrigerated, will the facility personnel limit the combined total of alcohol, alcohol substitute, and any other VOC in each fountain solution to less than 5 percent?

YES ☐ NO ☐ N/A ☐

5. If you have any fountain solutions that are refrigerated below 60° F, will the facility personnel limit the combined total of alcohol, alcohol substitute, and any other VOC in each fountain solution to less than 8.5 percent?

YES ☐ NO ☐ N/A ☐

6. Will the facility personnel limit VOC emissions from cleaning solutions by using solutions with a vapor pressure less than or equal to 10 mm Hg at 20° Celsius?

YES ☐ NO ☐ N/A ☐

7. Will the facility personnel store all VOC-containing materials used for cleaning and cleanup, including rags and towels, in closed containers when not in use?

YES ☐ NO ☐ N/A ☐

If your facility uses one or more Offset Lithographic printing presses, you must answer either YES or N/A to questions 4 and 5 and answer YES to questions 6 and 7 to qualify for coverage under the general permit.

Answer questions 8 thru 10 if your facility has fountain solutions containing alcohol. If your facility does not have fountain solutions containing alcohol, answer not applicable (N/A) to questions 8 thru 10.

8. Will facility personnel monitor the alcohol concentration of each fountain solution source with a refractometer, hydrometer or a conductivity meter having a visual readout (analog or digital) with an accuracy of ± 2 percent of the meters full scale or ± 0.5 percent absolute?

YES ☐ NO ☐ N/A ☐

9. Will facility personnel make a weekly entry of the results of the above instrument reading for each fountain source containing alcohol?

YES ☐ NO ☐ N/A ☐

10. Will facility personnel make a weekly record of the names and most current mixing ratio of all alcohol, alcohol-substitutes, and water used in making fountain solution in that source.

YES ☐ NO ☐ N/A ☐

If your facility has fountain solutions containing alcohol, you must answer YES to questions 8, 9 and 10 to qualify for coverage under the general permit.

Answer question 11 if your facility has a press or presses that ONLY USE ALCOHOL-SUBSTITUTES AND NEVER USE ALCOHOL IN THEIR FOUNTAIN SOLUTIONS, otherwise answer not applicable (N/A) and go on to question 12.

11. Will facility personnel record once a month the names of all alcohol-substitutes and the mixing ratio of all alcohol-substitutes to water, for each fountain solution source on any press which never uses alcohol?

YES ☐ NO ☐ N/A ☐

If your facility has presses that never use any alcohol in their fountain solutions, you must answer YES to question 11 to qualify for coverage under the general permit.

The following questions apply to all graphic arts facilities:

12. Will facility personnel retain a current list of inks, coatings, adhesives, fountain-solution alcohol(s) and alcohol substitutes, thinners, cleaners and any other VOC-containing materials used at the facility stating the VOC content of each in pounds per gallon or grams per liter.

YES ☐ NO ☐

13. Will facility personnel list the VOC vapor pressure at 20°C (68°F) for each blanket wash and other cleaning solution?

YES ☐ NO ☐

14. Will facility personnel maintain monthly Usage Records of graphic arts materials and cleaning solutions showing the type, and amount of each graphic-arts ink, varnish, coating adhesive, fountain solution, blanket wash, and all other cleaning solutions?

YES ☐ NO ☐

15. Will facility personnel retain these records for five years and make them available to the Control Officer upon request?

YES ☐ NO ☐

To qualify for this general permit, you must answer YES to questions 12, 13, 14 and 15.

THIS SECTION APPLIES TO GRAPHIC ARTS OPERATIONS AND ASSOCIATED COATING PROCESSES. THIS INCLUDES BUT IS NOT LIMITED TO CIRCUITRY PRINTING, FLEXOGRAPHIC, GRAPHIC ARTS, GRAVURE, LAMINATION, LETTER PRESS LITHOGRAPHIC, AND SCREEN PRINTING OPERATIONS.

GUIDE TO FILLING OUT THE GRAPHIC ARTS EQUIPMENT DESCRIPTION TABLE:

- EQUIPMENT DESCRIPTION:** Make, model, and type.
- INSTALLED OR PROPOSED:** If the equipment already installed, enter actual installation date. If the equipment is proposed for future installation, enter the proposed installation date.
- IMPRESSION AREA:** Total impression area per press.
- PRESS TYPE:** (F) Flexographic, (L) Lithographic, (G) Gravure, (LP) Letter Press, (S) Screen, Other (Please Specify)
- NUMBER OF PRINTING UNIT/SURFACES:** Number of printing surfaces per printing press.

GRAPHIC ARTS EQUIPMENT DESCRIPTION

1. **EQUIPMENT LIST (LIST EACH PRESS INDIVIDUALLY):**

ASSIGNED EQUIPMENT NUMBER	PRESS MANUFACTURER, MODEL	DATE OF ACTUAL OR PROPOSED INSTALLATION	IMPRESSION AREA (SQUARE IN)	PRESS TYPE*	# OF PRINTING UNITS (SURFACES)

* (F) FLEXOGRAPHIC, (L) LITHOGRAPHIC, (G) GRAVURE, (LP) LETTER PRESS, (S) SCREEN, OTHER (PLEASE SPECIFY)

2. **MATERIALS LIST:**

LIST ALL MATERIALS. THIS INCLUDES BUT IS NOT LIMITED TO: INKS, FOUNTAIN SOLUTION, BLANKET WASH, VARNISHES, ROLLER WASH, ETCH SOLUTIONS, FIXERS, DEVELOPERS, REPLENISHERS, ALCOHOL SUBSTITUTES, FINISHERS, ADHESIVES, OTHER SOLVENTS AND CLEANUP MATERIALS. COMPLETE THE TABLE BELOW FOR EACH MATERIAL. PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH MATERIAL AND NUMBER THEM TO CORRESPOND TO THE TABLE BELOW.

MSDS NUMBER	MATERIAL	ANNUAL USAGE OR THROUGHPUT	VOC CONTENT (% BY WEIGHT)	AMOUNT RECLAIMED OR SHIPPED AS WASTE

SECTION B. FUEL BURNING EQUIPMENT

The General Permit for a Graphic Arts Facility makes provisions for the co-location of fuel burning equipment associated with printing press equipment, so long as the fuel burning equipment is able to meet the following criteria:

- ◆ Each piece of equipment has a heat input rating of less than 10 Million BTU/hr;
- ◆ The aggregate (sum) of heat input ratings for all fuel burning equipment is less than 36 Million BTU/hr);
- ◆ The fuel burning equipment **only** burns natural gas, butane or propane in all equipment, in all equipment other than emergency generators; and
- ◆ The fuel burning equipment can not be classified as an internal combustion engine or a turbine unless the internal combustion is less than 260 horsepower, and serves only as an emergency standby generator.

The following questions apply to Fuel Burning Equipment:

1. Will the maximum heat input rating (as listed by the manufacturer) of any single fuel burning piece of equipment be less than 10 million BTU/hr?

YES ☐ NO ☐ N/A ☐

2. Will the maximum combined heat input rating for all fuel burning equipment (excluding internal combustion engines) at the facility be less than 36 million BTU/hr?

YES ☐ NO ☐ N/A ☐

3. Will you only burn natural gas, propane, and butane as fuels in the fuel burning equipment?

YES ☐ NO ☐ N/A ☐

4. Will you be operating any internal combustion engines at this facility?

YES ☐ NO ☐

- a) If you are operating an internal combustion engine at this facility, is the engine less than 260 horsepower?

YES ☐ NO ☐

- b) If you are operating an internal combustion engine at this facility, will it serve only as an emergency standby generator?

YES ☐ NO ☐

To qualify for this general permit, you must answer either YES or N/A to questions 1, 2 and 3. If you answered YES to question 4, you must answer YES to questions 4.a and 4.b. to qualify for this general permit.

5. Unless you marked N/A for question number 1, please complete the equipment description table on the next page:

GUIDE TO FILLING OUT THE FUEL BURNING EQUIPMENT DESCRIPTION TABLE:

EQUIPMENT DESCRIPTION: Make, model, and type (for example, boiler, heater, etc...)

INSTALLED OR PROPOSED: Is the equipment already installed, or is it proposed for future installation.

GROSS INPUT RATING: This is the heat input rating for the unit, in BTU/hr, and is usually found on a plate located on the side of the unit. Maintenance personnel may be able to assist in the location of this information.

FUEL BURNING EQUIPMENT DESCRIPTION

EQUIPMENT DESCRIPTION (make, model, type)	INSTALLED OR PROPOSED	NUMBER OF UNITS	GROSS INPUT RATING (EACH) (BTU/hr)	GROSS INPUT RATING SUBTOTAL (3rd column x 4th column)
TOTAL GROSS INPUT HEAT RATING (SUM OF THE LAST COLUMN) (MUST BE LESS THAN 60,000,000 BTU/hr)				

STANDARD INDUSTRIAL CLASSIFICATION CODES FOR GRAPHIC ARTS

27-- Printing, Publishing, And Allied Industries

2711 Newspaper Publishing Or Publishing & Printing

2721 Periodical Publishing Or Publishing & Printing

2731 Book Publishing Or Publishing & Printing

2732 Book Printing

2741 Miscellaneous Publishing, including the following: Shoppers News Publications, Art Publishers, Catalog Compilers, Map Publishers & Printers, Music Publishers

2752 Commercial Lithographic Printing

2754 Commercial Gravure Printing

2759 Commercial Printing, including the following: Silkscreen Printing, Stationary Engravers, Decal Manufacturing & Wholesale, Business Card Printing, Glass Metal & Plastic Etc Printing, Embossing Services, Imprinting, Law Brief Printers, Post Card Printers, Poster Printers, Thermographers, Printing Brokers, Wedding Announcements & Invitations Retail

2761 Manifold Business Form Manufacturing and/or Sales & Order Books Manufacturing

2771 Greeting Card Publishing Or Publishing & Printing

2782 Blankbook Looseleaf Binder & Device Manufacturing including the following: Album Manufacturing & Wholesale, Book Catalog Etc Covers, Loose Leaf Equipment & Supplies

2789 Bookbinding & Related Work

2791 Typesetting

2796 Platemaking & Related Services, including the following: Platemaking Services, Gravure Printing Plates, Photoengraving, Lithographing & Electrotyping, Positive & Negative Lithographic Plate Manufacturing

Graphic Arts Standard Industrial Classification Codes are from <http://www.webstersonline.com>